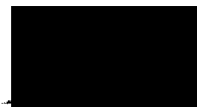


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active

FIRST MONTHLY PROGRESS REPORT
For Period 17 June- 17 July 1960




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IMAGE QUALITY METER

It is planned to make use of as much of the optics being developed for the Image Enhancement program (under Task 1 of this contract) as possible. The computer sections will use standard analog plug-in computing elements that are commercially available. Technical information about these elements is being collected and evaluated for use in the program. Early results of the evaluation indicate that the bandwidth of the computer should be limited to approximately 10 KC due to limitations on computing accuracy and noise occurring in differentiators. The sweeping frequency must be limited to 2 or 3 cps for a sweep length about 1 cm. These low frequencies will allow the use of a galvanometer to drive an oscillating mirror as a simple form of scanner.

During the next month it is planned to purchase a galvanometer and build the drive circuits for it. This scanner will be installed into the Image Enhancement optical breadboard, and the computer sections will be tested as they are completed. Manpower expenditures will continue to be light in order to make the maximum use of developments in the Image Enhancement program.

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 has been appointed project engineer on this program. Progress during the first month of this program has been satisfactory.

DECLASS REVIEW by NIMA/DOD

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